

AMENDMENTS TO THE SPECIFICATION

Please change the specification beginning at page 22, line 10 and concluding at page 23, line 13 as follows:

--An example of the improved non-separable sum of powers Wavefront Coded Optics is given in FIG. 8. The upper left graph in FIG. 8 is a contour plot of constant phase of the non-separable cubic phase sector system showing a central region 802 and a peripheral region 804 (which includes a negative phase region 804(a) and a positive phase region 804(b)). The cubic phase sector system is the non-separable sum-of-powers system with one exponential term, with $\beta=3$. $M=1$, and $\text{offset}=\pi/2$. The parameters of this non-separable cubic phase sector system are:

$$4.48 Q(\rho/\underline{\Omega}) \text{sign}_{\text{angle}}(\theta-\pi/2) [(\rho-\underline{\Omega})/(1-\underline{\Omega})]^3$$

$$\underline{\Omega}=0.2$$

$$|\rho| \leq 1, 0 \leq \theta \leq 2\pi$$

and where

$$Q(z) = 1 \text{ if } z \geq 1, Q(z) = 0 \text{ otherwise}$$

$$\text{sign}_{\text{angle}}(\Phi) = +1 \text{ if } 0 < \Phi < \pi, \text{sign}_{\text{angle}}(\Phi) = -1 \text{ otherwise}$$

The top right graph of FIG. 8 shows a 1D slice through the cubic phase sector system; regions 810(a), 812 and 810(b) show the values of phase with respect to normalized spatial position that correspond to negative phase region 804(a), central region 802, and positive phase region 804(b), respectively, in the upper left graph of Figure 8. The bottom graph of FIG. 8 shows the misfocus MTFs of a system with no Wavefront Coding (820) and with the non-separable cubic phase sector system (822). Again the normalized misfocus values are $\Psi = \{0, 2, 4\}$, as used in FIGS. 3 and 7. These MTFs are 1D slices from MTFs formed with circular apertures. The MTFs for the system with the non-separable cubic phase sector system are seen to be very insensitive to misfocus effects, especially when compared to the MTFs from the system with no Wavefront Coding.--